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USAIN Holds Inaugural Meeting

by Brian Norris, Public Affairs Officer, NAL

With a focus on the future of agricultural information and with over 100 people participating, the inaugural meeting of the U.S. Agricultural Information Network (USAIN) was held November 7-9, 1990, at the University of Illinois at Urbana-Champaign.

"I was pleased with the turnout and with what was accomplished at the meeting," said Joseph Howard, Director of the National Agricultural Library. "Most people that I talked with felt likewise. If USAIN can build on the foundation that was laid at this meeting, it will be a remarkably effective organization."

For several years, Howard and NAL have been active in helping to establish USAIN. Howard views USAIN as an ideal vehicle to bring together organizations that are concerned with the accessibility of agricultural information. USAIN's charter is to strengthen agricultural libraries and information services and improve cooperation between these groups in sharing agricultural information.



photo: J. Swab
Renée Deter (Clemson), Robert Rubinyi (Minnesota), and Jane Johnson (Illinois), prepart the demonstrations for the technology session of the 3-day USAIN meeting.

"The sharing of agricultural information among the agricultural research and university communities in the United States is vital to the continued success of American agriculture," Howard said. "USAIN members recognize this fact and are working to ensure that sharing continues and improves."

The 105 people participating in this first USAIN meeting were a diverse group, representing federal and state government agencies, private industry, food companies, publish-

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...and more





photo: J. Swab

USAIN Local Arrangements Committee at the University of Illinois, Champaign/Urbana: (L-R) Julia Peterson, USAIN President, Cargill Information Center; Rue Olson, Illinois Farm Bureau; Barbara Swain, University of Illinois; Richard E. Wallace, A. E. Staley Mfg. Co.; Carol Boast, Chairperson, University of Illinois; Jane Johnson, Consultant (University of Illinois); Kay Norman, University of Illinois; and Diana Polk, Deere & Company; not present: Karen Newsome, Illinois Research & Reference Center, University of Illinois; and Maria Porta, University of Illinois. The Program Planning Committee consisted of Joe Boykin, Clemson University; Beverlee French, University of California, Shields Library; and Julia Peterson.

ing houses, and numerous universities and university libraries.

Subjects covered during the three-days of meetings included: "Agricultural Information and the Future: Collaborative Planning and Consensus Building," and "The Reference Process in Four Corporate Agricultural Libraries: A Subject Approach." Participants also received

Keynote Speaker, Luncheon Session

(Facing page, clockwise from left): Bob Bergland, Keynote Speaker, Executive Vice President and General Manager, National Rural Electric Cooperative Association, Secretary of Agriculture, 1977-81, U.S. Representative from the Minnesota Seventh Congressional District, 1971-77.

USAIN members at luncheon sponsored by Cargill Information Center; Julia C. Peterson, USAIN President, Cargill Information Center; John W. Beecher, past-president of USAIN, North Dakota State University Libraries; Orville G. Bentley, College of Agriculture, University of Illinois, Assistant Secretary of Agriculture, Science and Education, 1982-89.

Speakers table (L-R) Reg Gomes, Dean, College of Agriculture, University of Illinois; Bob Bergland; Orville Bentley; John Beecher; Mrs. Bentley; David F. Bishop, University Librarian, University of Illinois; Joseph H. Howard, Director, National Agricultural Library; and Julia Peterson. All photos by Joseph N. Swab, NAL.

demonstrations of several new information management systems including: the "CD-ROM Sampler" of information by USDA's Extension Service; the "Aquaduct: Numeric Data on Tap" computer system by Cornell University's Mann Library; and the Extension Service Information Resources—Whole Earth Decision Service.

Keynote speaker at the USAIN inaugural meeting was former Secretary of Agriculture Bob Bergland, who, at a luncheon hosted by Cargill, Inc., stressed the importance of cooperation among groups maintaining agricultural information.

At the one of the most stimulating sessions of the meeting, a panel discussion of "Agricultural Information and the Future," the audience was treated to the views on this subject by speakers from the private sector, university administration, library education, and the computer world.

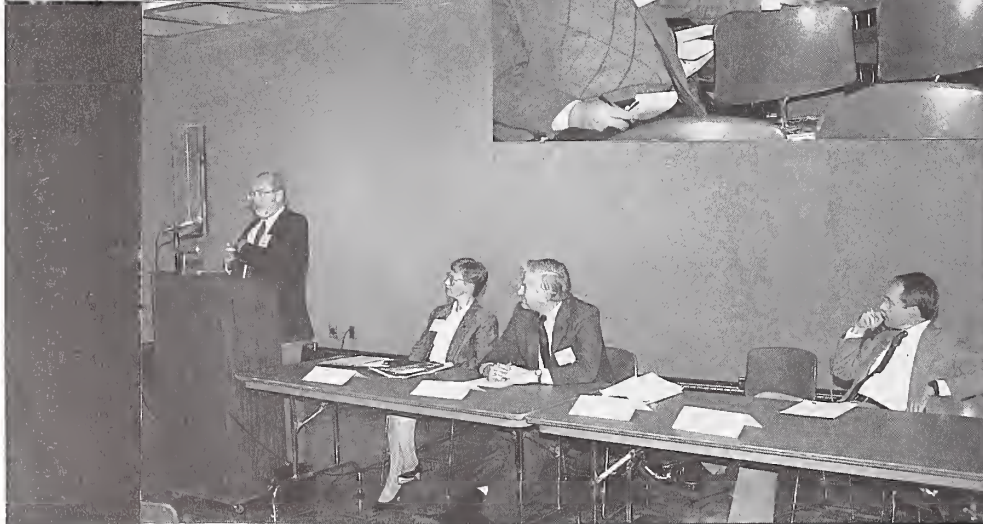
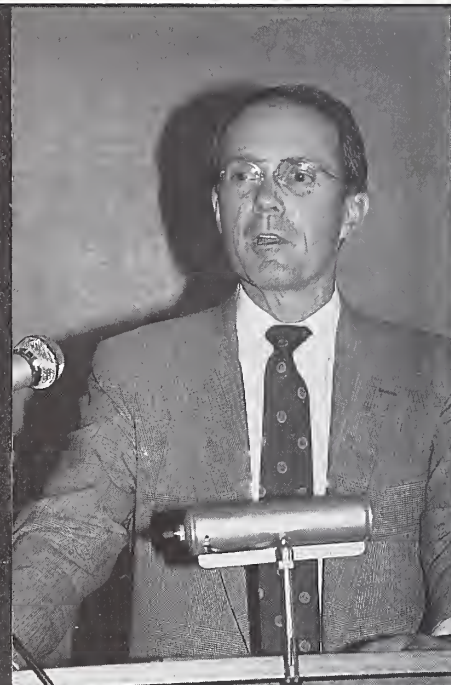
Dr. Curtis Farrar of the International Food Policy Research Institute in Washington, D.C., said that "world demand for agricultural information is growing because the needs of developing countries are growing." He mentioned particularly the needs of Eastern European countries, which, since the recent change in that area's political structure, are looking to the West for knowledge on improving their farming capabilities.

Farrar said that decreasing funding for agricultural research in the United States and the world will impact the availability of agricultural information. Developing countries are looking to the West for financial assistance in developing their agricultural information resources, he said, but they "need to allocate some of their own resources as an indication of their commitment."

Finally, Farrar pointed out that along with the information management assistance provided to developing countries will need to come "an enormous amount of training and education" so the countries can use the resources provided to them.

Farrar was followed by Janet Butts of Cargill, Inc., who spoke on the "critical" need for agricultural information skills by companies providing goods and services to the agricultural community. A company's "agricultural library must participate as a member of the business team," she said, "distilling information for business uses such as market planning and product development."

George Strawn from the Computation Center of Iowa State University, next gave a presentation in which he said "the information changes of the next 30 years will be more significant than those of the last 30 years."



Among his predictions were CD-ROMs will be obsolete within 10 years with magnetic memory taking over; the 1990s will be the decade of the academic database; people will use computers more to communicate with other people; and "paper will be outmoded in 10 to 20 years" with the advent of computer books that will "read themselves to you."

Strawn ended by saying that "the computer is the most important invention since the invention of human language."

Finally in this session, Wilf Lancaster of the University of Illinois Graduate School of Library and Information Science cautioned to "avoid obsession with technology (since) technology does not hold all of the answers for information management."

Lancaster said as an example that the transfer of the card catalog to computer has not improved access to information. "The more information there is on a subject, the more difficult it becomes to ob-



Agricultural Information and the Future

(Opposite page, clockwise from right center) USAIN members attending the session on Agricultural Information and the Future; the panel of speakers; Janet Butts, Vice President, DPM/Excel Foods Division, Cargill Inc.; F. Wilf Lancaster, Professor, Graduate School of Library and Information Science, University of Illinois; Dr. Curtis Farrar, Consultant, International Food Policy Research Institute; and George O. Strawn, Director, Computation Center, Iowa State University.

Photos by Joseph N. Swab, NAL.



USAIN Committees and Interest Groups

(This page, top to bottom) AGRICOLA Interest Group; Document Delivery Interest Group; Membership Committee; Telecommunications and Networking Committee.

All of the persons attending this USAIN conference participated in one or more of the committee or interest group sessions: not all are shown here. See also page 9. (Collection Management Interest Group not shown.)

Photos by Joseph N. Swab, NAL.

tain, define and sort through that information," he said. There is also "a scatter problem" with needed information possibly located at sites throughout the United States, he said.

Lancaster also said that "the glamour of the technology has had little positive effect on the image of librarians" and "librarians no longer know who their users



are, which can have negative effects on services." Finally, he stated that "claims for expert systems and artificial intelligence are grossly inflated. Specialized information centers should fill this role."

A lively audience discussion followed these four presentations, with the speakers closely questioned about their reasoning or to elaborate, while others expanded ideas touched upon or offered alternative views.

On the second day of the USAIN meeting, attendees were able to glean information on techniques for running an agricultural library from representatives of four corporate agricultural libraries. During this session, agricultural information specialists from Deere & Company, the American Farm Bureau Federation, Cargill-International Agricultural Data, and A.E. Staley explained how they operate in the often high-pressure environment of the corporate world.

During the three-day USAIN meeting, the USAIN Executive Council and various USAIN committees also met to discuss and recommend action on specific issues of mutual concern to all agricultural libraries and information centers and affecting the future of the organization. Julia Peterson, President of USAIN and manager of the Cargill Information Center, chaired several of the main sessions of the USAIN inaugural meeting and the Executive Council meetings.

It was decided during the final business session that

Speakers at the USAIN Inaugural Meeting

(Opposite page, L-R, top row) "The Reference Process in Four Corporate Agricultural Libraries: A Subject Approach." Rue Olson, moderator, Illinois Farm Bureau; Diana Polk, Deere & Company (Agricultural Engineering); Julia Peterson, Cargill Inc. (International Agricultural Data); Sue Schultz, American Farm Bureau Federation (Agricultural Economics); and Dick Wallace, A. E. Staley Mfg. Co. (Agricultural Processing).

"Aqueduct: Numeric Data on Tap." Marijo Wilson, Mann Library, Cornell University.

(Middle Row) "Extension Service Information Resources: WEDS (Whole Earth Decision Service)." Renée Deter, Clemson University.

"CD-ROM Sampler: An Ag Extension Reference Library." Dr. Robert Rubinyi, University of Minnesota, Extension Service.

"Water Quality in Agriculture." Bill Simmons, Assistant Professor of Soil and Water Management, Department of Agronomy, University of Illinois.

"Highlights of NAL Programs, 1990." Joseph H. Howard, Director, National Agricultural Library.

(Bottom Row) "Agricultural Sustainability." Peter Bloome, Assistant Director, Cooperative Extension Service State Program Leader, Natural Resources and Community Development, University of Illinois.

"Text Digitizing Project Update." Judith A. Zidar, National Agricultural Library; Diana D. Shonrock, Iowa State University; Nancy L. Eaton, Iowa State University; and Gerald McKiernan, Iowa State University.

Photos by Joseph N. Swab, NAL.

USAIN would attempt to publish the proceedings of this inaugural meeting. Editor of the proceedings is Eleanor Mathews, Information Services Librarian, Parks Library, Iowa State University, Ames, Iowa 50011-2140; telephone: (515) 294-3642. The National Agricultural Library agreed to publish the proceedings with Joseph Swab coordinating the publication process.

Information on joining USAIN may be obtained by contacting the organization's secretary/treasurer, Douglas Jones. The address is:

Mr. Douglas Jones

Assistant Head, Science-Engineering Library

University of Arizona

Tucson, AZ 85721

Telephone: (602) 621-6392.

USAIN Executive Council Meeting

The USAIN Executive Council met several times during the course of the USAIN Inaugural Meeting to conduct the business of the organization. Planning for 1991 activities was high on the agenda and included the second annual meeting to be held at the University of Minnesota.

The Executive Council (Photos on page 8, clockwise from top center in the same order as the group photo):

Julia Peterson, President, Cargill Inc., Minneapolis, MN; Douglas Jones, Secretary/Treasurer, University of Arizona, Tucson, AZ; Eleanor Mathews, Iowa State University, Ames, IA; Sarah E. Thomas, National Agricultural Library Liaison, Beltsville, MD; Elaine M. Albright, University of Maine, Orono, ME; Eleanor G. Frierson, CGIAR Secretariat, World Bank, Washington, DC (Since moved to International Labor Office, Geneva, Switzerland); John W. Beecher, USAIN Past President, North Dakota State University Libraries, Fargo, ND; and Beverlee French, sitting in for Marilyn J. Sharrow, University of California at Davis, CA; not attending, Susan K. Nutter, North Carolina State University, Raleigh, NC.

Sponsors, Training, Interest Groups

Among the sponsors and hosts of the USAIN Inaugural Meeting events were (see photos on page 9, top row) Carol Boast, Director of the Agriculture Library, University of Illinois, and Chairperson of the Local Arrangements Committee; Reg Gomes, Dean, College of Agriculture, University of Illinois; Patricia Endel, Executive Director, Associates of the National Agricultural Library; and (middle row, left) Reg Gomes and David F. Bishop, University Librarian, University of Illinois with Joseph Howard, Director, NAL. Sponsors of USAIN events were the Associates of National Agricultural Library, Cargill Information Center, College of Agriculture—University of Illinois, Haworth Press, Illinois Farm Bureau, and the University Library—University of Illinois.

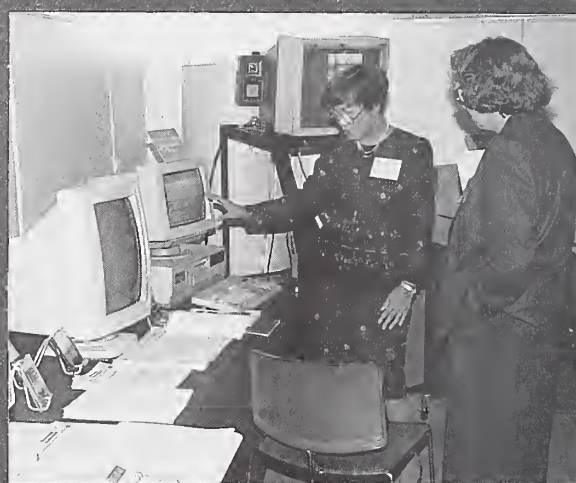
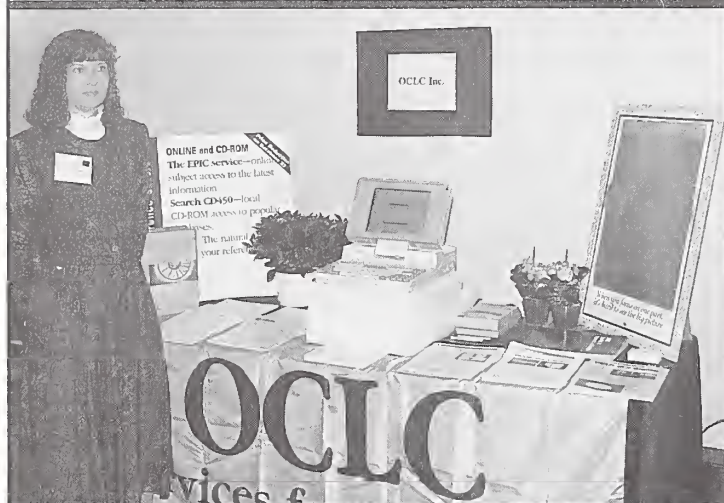
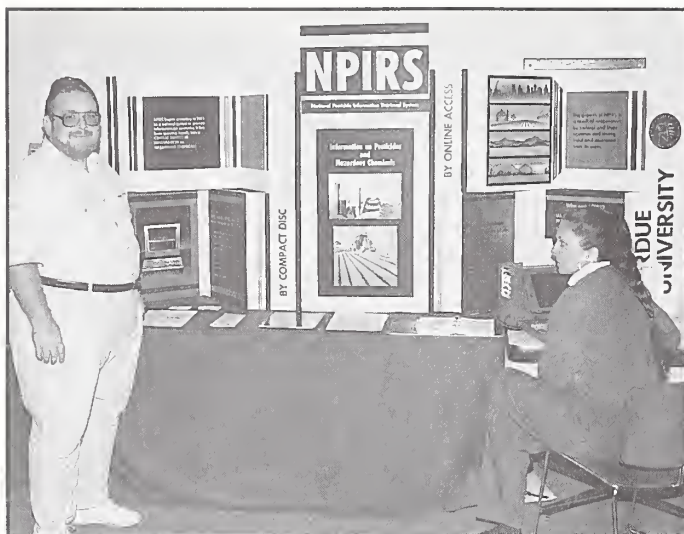
(bottom) Karl Schneider, NAL Reference and User Services Branch, conducts an AGRICOLA Training Course following the last USAIN session.

(right) The Cataloging Interest Group (above), and the Rural Information Interest Group.

Photos by Joseph N. Swab, NAL.







Exhibits at USAIN

(Above, clockwise from bottom left) Silver Platter Information Services, John Reid, Vice President, with Ed Vernon, University of Illinois, Cooperative Extension Service; OCLC, Barbara Kosinsky, Regional Marketing Representative; NPIRS, National Pesticide Information Retrieval System, Purdue University, Edward Ramsey, User Services Manager, and Virginia Walters, User Services Specialist; Slater Hall Information Products, Courtenay Slater, Chairman of the Board;

National Agricultural Library, Judith Zidar, ISD, NAL, with Susan Logan, Ohio State University; and taking down the exhibits, Barbara Hutchinson, CAB International and Arid Lands Info Center with Judi Zidar and Paul Hosman, NAL, and a student from the University of Illinois. Other exhibitors included the Associates of NAL, Haworth Press, International Association of Agricultural Information Specialists (IAALD), Library Trends, U.S. Bureau of the Census, and the University of Minnesota Extension Service (CD-ROM Sampler).

Photos by Joseph N. Swab, NAL.

NAL Director and Special Collections Head Speak at Pre-White House Conference

by Brian Norris, Public Affairs Officer, NAL

NAL Director Joseph Howard and Dr. Alan Fusonie, Head of NAL's Special Collections, were keynote speakers at two sessions of the Federal Pre-White House Conference on Library and Information Services held at the National Library of Medicine in Bethesda, Maryland, November 26-27, 1990.

The pre-conference was held to allow delegates to identify and articulate specific issues and concerns to be addressed at this summer's Second White House Conference on Library and Information Services. The pre-conference focused on preservation, access, networking, and funding.

Speaking on funding, Howard said that the budget climate of today is drastically different from the "times of plenty of the 1960s" when he began working in the federal library system. Today, he said, libraries, like all government services, are facing the budgeteer's axe. Libraries "must work more closely in order to speak with a louder voice" in letting those that control the federal purse-strings know how crucial the services provided by libraries and information centers are to the well-being of the nation.

In an effort to get delegates thinking about the issue of user fees (which many in government hold up as the future for government services, including libraries), Howard posed several questions to those in attendance including the basic one of "should charges be made for services that traditionally the American taxpayer had received for free." While not claiming to have the answer, Howard said that this was an important issue that all government-funded information services would be required to face in the near term and it was a key issue to be addressed at the White House Conference.

Fusonie spoke on the issue of preservation, which because of the embrittled state of much of the nation's archival materials, has the attention of librarians and information specialists throughout government.

Recognizing that libraries and information centers rarely have the resources they need to preserve all of their collections, he said that librarians now must make the tough choices in prioritizing their preservation activities; they are being forced to ask "what is the value of that information" and does it warrant being saved over other embrittled materials.

This is a regrettable circumstance, Fusonie said, but the White House Conference is an excellent opportunity to make the magnitude of the preservation problem known to those outside the information service professions.

Fusonie also stressed the importance of preservation education, staff commitment and administrative leadership in preserving collections. And he hammered on the point that preservation must be a budgetary priority in libraries. Concluding his remarks, Fusonie gave a brief overview of the

improvements that are being made in the science of preservation.

Approximately 100 delegates and 70 alternates and observers attended the pre-conference. Represented among this group were federal advisory committees, boards of regents, government officials, federal librarians and information specialists, and private citizens.

Federal Pre-White House Conference on Library and Information Services

The Federal Pre-White House Conference on Library and Information Services convened at the National Library of Medicine, Bethesda, Maryland on November 26-27, 1990, to help draft a national information policy agenda suitable for the 21st century. The second federal pre-conference, sponsored by the Federal Library and Information Center Committee (FLICC) and organized by its Federal Library/Information Center Advisory Group (FLAG), addressed the major information concerns of the 2500 federal library and information centers and the nation-at-large. Donald Curran, Acting Associate Librarian for Constituent Services, Library of Congress, was Chairman of the conference and Mary Berghaus Levering, Executive Director of FLICC, officially welcomed the attendees.

The pre-conference theme "citizen access to federal information resources through federal information organizations" was addressed by keynote speaker, Peter R. Young, Executive Director, U.S. National Commission on Libraries and Information Science (NCLIS). He emphasized the unique position of influence the federal library and information sector has on national information policies. "The need to understand the changing economics of information and to carefully define the social value of information become critical in developing a coherent framework for national information policies," said Young. He added that it is important to "take into account the international character of the issues and the need for all segments of the information sector to be presented and heard in the process."

Under the umbrella theme of, "Access is the Key," the pre-conference, in a series of recommendations, decided on the need for national policies in three critical areas: preservation, networking, and access, each embodying considerations of funding. These issues were defined by the delegates as key elements towards the furtherance of literacy, productivity, and democracy in the United States of America in keeping with the three overall themes of the Second White House Conference on Library and Information Services (WHCLIS II) scheduled for 1991. Speakers were Dr. Alan Fusonie, Head, Special Collections, National Agricultural Library; Dr. Neal Kaske, Senior Associate, Office of Library Programs, US Department of Education; Joseph Howard, Director, National Agricultural Library; Dr. Fred Wood, Senior Associate, Congressional Office of Technology Assessment.

Over 150 pre-conference attendees drafted thirteen recommendations related to these key issues. The four

delegates and four alternates elected at the pre-conference will present the recommendations to (WHCLIS II). They are:

Information Specialist Category

Delegate: Elisabeth S. Knauff, Chief, Information Services Division, U.S. Department of Treasury

Alternate: Doria Beachell Grimes, Database Product Management Specialist, National Technical Information Service

Government Officials Category

Delegate: Gary W. North, Assistant Division Chief of Information and Sales Mapping, U.S. Geological Survey

Alternate: Kurt N. Mulholm, Administrator, Defense Technical Information Center

Advisory Boards Category

Delegate: Bonnie C. Carroll, Secretary Director of CENDI (Commerce, Energy, NASA, NLM, Defense Information Managers); President of Information International

Alternate: Egon Weiss, Librarian Emeritus, U.S. Military Academy; Board of Governors, West Point Library Friends

Citizens Category

Delegate: Davis B. McCarn, President of Online Information International, Inc.

Alternate: Donald King, President, King Research, Inc.

These delegates will join with delegates from all the states, territories, and Indian Nations to debate and determine a set of recommendations for improved library and information service for all citizens. The recommendations of WCHLIS II will be forwarded to President George Bush.

On Monday evening a reception celebrating the Second Federal Pre-White House Conference and the 25th Anniversary of FLICC was held. Honored guests included former FLICC Executive Directors, Paul Howard, Frank Kurt Cylke and James P. Riley; directors of the three national libraries; Dr. James Billington (Library of Congress), Dr. Donald Lindberg (National Library of Medicine), and

Joseph Howard (National Agricultural Library); Peter Young and White House Conference Executive Director, Jean Curtis; and John Lorenz, who was the Deputy Librarian of Congress in 1965 when FLICC was founded as the Federal Library Committee. The reception was made possible by the generous donations from The American Association of Law Libraries and the Law Librarians' Society of Washington, D.C.; The Federal Librarians Round Table/American Library Association; The Medical Library Association; and the Special Libraries Association.

—Federal Library and Information Center Committee

NAL Participants in a Pre-White House Conference on Networking

by Pamela Andre

Associate Director for Automation, NAL

To ensure that issues relating to library networking have adequate coverage and support at the White House Conference on Libraries and Information Services to be held in July of 1991, the Library of Congress Network Advisory Committee (NAC) sponsored an invitational conference in mid-December 1990. Pam Andre, Associate Director for Automation, represented the National Agricultural Library at the "Networks for Networkers II Conference," which was designed to bring together experts in the field of library networking to assess the broad range of networking activities currently underway and to develop plans for the future.

Invited speakers gave a series of thought-provoking presentations on "Networking Technology", "Network Policy," "Governance and Funding," and "Users and Services." Such issues as the emerging National Research and Education Network, the formulation of federal information

Federal Pre-White House Conference on Library and Information Services

(opposite page, center row, L-R) Mary Berghaus Levering, Executive Director, Federal Library and Information Center Committee (FLICC), which sponsored the conference.

Donald C. Curran, Acting Associate Librarian for Constituent Services, Library of Congress, Conference Chair.

Peter R. Young, Executive Director, U.S. National Commission on Libraries and Information Science, Keynote Speaker.

Christie D. Vernon, St. Leo College Base Library, Langley AFB, Chair, Recommendations Committee.

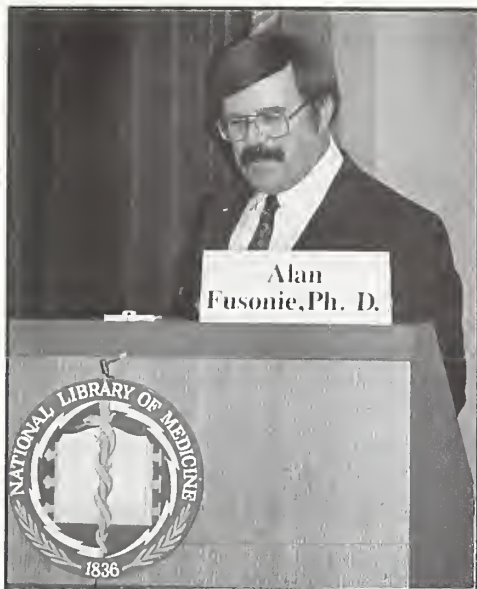
(top row) Alan Fusonic, Head, Special Collections, National Agricultural Library, Speaker, General Session on Preservation.

Joseph H. Howard, Director, National Agricultural Library, Speaker, General Session on Funding.

Fred B. Wood, Senior Associate, Congressional Office of Technology Assessment, Speaker, General Session on Access Policies.

(bottom row) Neal Kaske, Senior Associate, Office of Library Programs, U.S. Department of Education, Speaker, General Session on Networking.

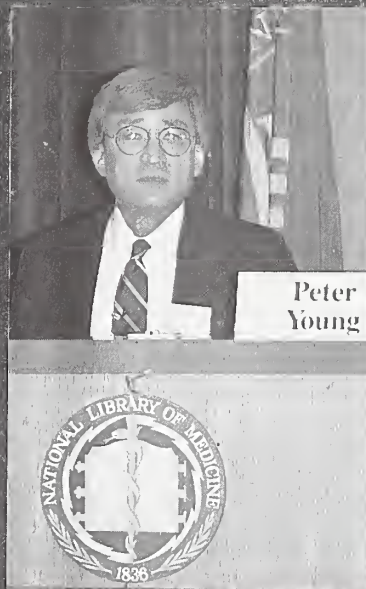
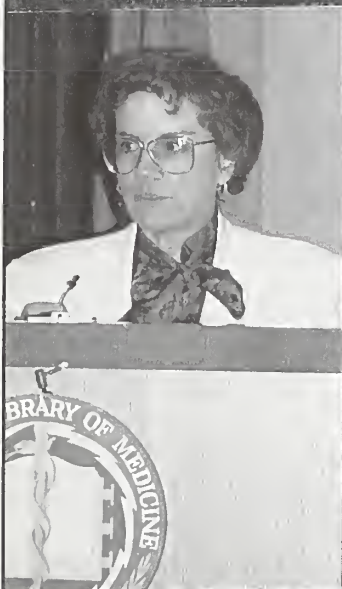
Ronald Young, Audio/Visual Information Specialist, Special Collections, NAL, demonstrates NAL's laser video discs of Forest Service and USDA photographs and the computer system and database which allow searching of photographs by subject, photographer, place, date, and other access points while simultaneously displaying the photograph and its database entry on adjacent monitors. Richard Wilson, Western Public Radio, San Francisco, California, was one of those impressed with the advanced technology of this system. Photos: Joseph N. Swab



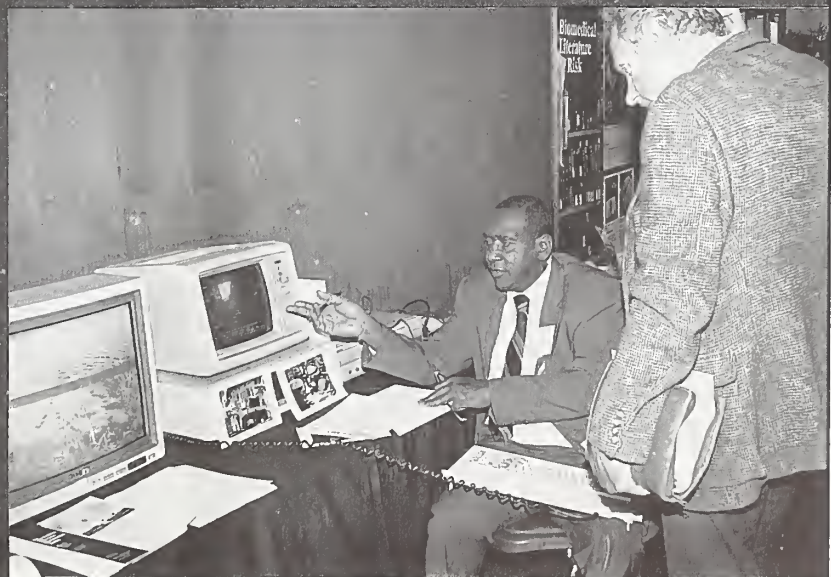
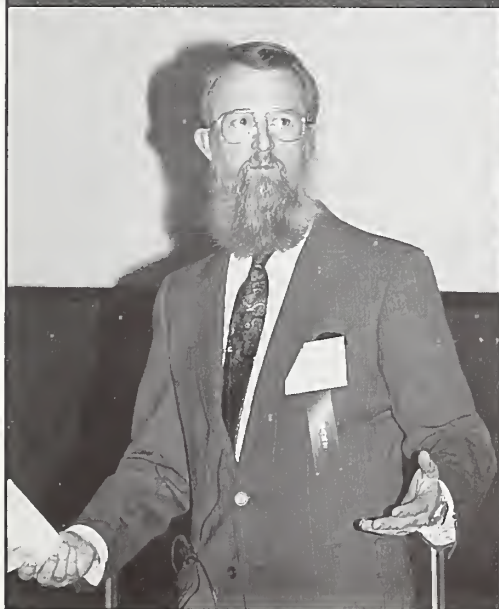
Alan
Fusonie, Ph. D.



Fred Wood



Peter
Young



policies, state and local network funding, and citizen access to information resources kept the 65 attendees busy as they worked to identify the most critical networking issues for the future.

After an intensive 2 1/2 day effort the group had successfully drafted a number of resolutions to be presented at the White House Conference. They include support for the National Research and Education Network (NREN) including access by all types of libraries, the availability of government information over the NREN, and an enhanced role for libraries in providing training and support for all citizens in their quest for information whether in printed or electronic form.



News from Other Libraries

Core Agricultural Literature Project— Progress Report

by Wallace C. Olsen
Core Literature Project Director
Albert R. Mann Library, Cornell University

The Core Project's aim is to identify the most important literature currently valuable for instruction and research in seven primary areas of the agricultural sciences. This is being accomplished for developing countries, and on a separate track, for developed countries. The final result for the Third World will be the production of compact disks containing the full text of this most important literature. [For full background and previous updates on this project see *ALIN*, 15(8):1-2, 11-14, August 1989; 16(4):10-11, April 1990.]

I. The literature studies themselves will be published in seven volumes, one per discipline. A volume will contain an analysis of the discipline, summaries of data, and the listings of the core monographs and journals. All seven volumes will follow this basic format. The first two volumes are now with Cornell University Press, publisher of the series. The first volume to appear in 1991 will be on agricultural economics and rural sociology, and was described in the April 1990 *Progress Report*. The agricultural engineering volume will be second and includes six literature review chapters on currently important topics in agricultural engineering: literature in developing countries; energy and agriculture; instrumentation, electronics and automation; food engineering; and forest engineering. There will be 15 separate chapters concerned with the literature of agricultural engineering written by 19 authors who are specialists in their fields.

II. Work on the third discipline, Animal Science and Diseases, began in April with a meeting of its Steering Committee. Citation analysis of the literature has been completed with examination of 15,000 citations from overview and seminal works. The monographs have been compiled in two lists, one of 930 titles for the Third World, and the other of 1200 titles divided into six subject areas for the developed world. These two major compilations are now being evaluated by animal scientists and veterinarians around the world. Recommendations on additional qualified individuals in the Third World would be welcome. They should have recent teaching and research experience with no less than 10 years in the profession. Tabulations on the evaluations will begin in two months, along with other analyses of literature trends. The manuscript for the animal science volume should be completed by April 1991.

III. Work on Soil Science began November 27, 1990, with a one-day meeting of the Steering Committee. Members of this group are:

Dr. Francis Broadbent, emeritus, Land, Air, and Water Resources, Univ. of California, Davis

Dr. William E. Larson, Dept. of Soil Science, Univ. of Minnesota

Dr. Douglas Lathwell, Dept. of Agronomy, Cornell University

Dr. Parker Pratt, Soil and Environ. Sciences, Univ. of California, Riverside

Dr. Larry P. Wilding, Soil and Crop Science, Texas A&M University

Monograph lists will be ready for review by soil scientists early in 1991. Soil science will include some related aspects of agronomy and fertilizers. Persons with appropriate subject backgrounds and teaching and research experience who would like to evaluate lists should submit their names. Reviewers will be needed for the developing as well as developed countries.

IV. The CD-ROM product for the Third World will contain the full text of the monographs and journals identified in each of the subject areas. The current estimate of Third World Literature for the entire project is 6,000 books and the last 5 years of 500 journals, or near 2 million pages of text. Distribution will be over a four year period. The Third World compact disk library is estimated to sell at \$16,500. An updating CD subscription service is planned for the journals on an annual basis at a cost of \$1,500. Equipment will be required with a high resolution monitor and laser printer for additional \$7,300. Donor agencies have expressed interest in supporting purchase for Third World institutions which need assistance.

Commercial firms are interested in the production of this library of 250 disks. However, before it can be considered commercially viable, a market survey must be conducted and a business plan prepared. Marketing data will provide the basis for the estimated number of sales and the pricing for Third World institutions. We need names of institutions and individuals who are willing to respond to inquiries in the market survey. If you or your organization would participate in a questionnaire and telephone survey, Third World or Developed World, please return the form on the last page of this issue of *ALIN*. Without participants there can be no survey, and the production will not be developed.

For additional information, comments, or recommendations, contact:

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Cornell University
Ithaca, New York 14853-4301
Phone: 607-255-8939
FAX: 607-255-0850*

Jan Olsen: Innovative Administrator at Mann Library

As a youngster in Adelaide, South Australia, Jan Kennedy Olsen was always a captain of sports teams and a leader of clubs — even if her playmates were older and, in the case of one basketball team, taller. One season, her team was losing halfway through its first game, so she used her captain's authority to switch the taller girls to guard positions and the shorter, faster ones to forward positions. The team won. But afterward, the other players wouldn't speak to her. "Daddy, the other girls are being horrible to me," she cried to her father. He explained why: No one changes positions in the middle of a game; it's unheard of.

"But we won," she protested. "So you did, and so you'll learn two lessons from this," her father said: "organize to win and learn to accept criticism."

The director of Cornell University's Mann Library since 1982, Olsen is considered an outstanding library administrator for the way she motivates people and the way she keeps pace with advances in information technology. She is also recognized for her concern with meeting needs of developing countries.

Late last year, the 53-year-old administrator was presented with the 1989-90 State University of New York Chancellor's Award for Excellence in Professional Services.

"Jan Olsen has a remarkable ability to look to the future and see her work in terms of information management for faculty and students, which is much broader than running a library," said David Call, Dean of the College of Agriculture and Life Sciences. "She's on the cutting edge of high-powered computing ability."

Over the next three to five years, Olsen will oversee a \$20 million construction project to double the size of the Albert R. Mann Library. Working toward a Ph.D in the design of a computerized information system for scholars, she also assigns high priority to making the electronic library "a marvelous reality to scholars." And she continues to raise funds for library projects. In 1981-82, Mann Library's budget from grants and contracts was \$6,640; this year it is \$550,000.

Before Olsen began administering libraries, she loved browsing in them. As a child she spent Saturdays visiting the university library near her home. "I thought the librarians were so clever because they knew everything in the library.

Of course, it turned out they didn't know everything, but they did know where to find it," she said.

While raising her own children, one now a lawyer, the other about to become a geophysicist, she worked in a library, enjoyed it, and returned to school for a library-science degree. After moving to the United States with her husband, she worked in libraries again, earned another degree, and for the next 20 years worked as an administrator in various university and government libraries, including the National Agricultural Library in Beltsville, Maryland.

At NAL Olsen came up with an idea that has become a major project at Mann: identifying the world's most significant literature on food and agriculture so it can be shared with developing nations. "I learned of the frustrations and limitations imposed on scientists in those countries, where there were such limited funds. This project grew out of my thinking about the best use of limited dollars in these countries," Olsen said.

The Rockefeller Foundation is supporting this project with a four-year, \$550,000 grant. When the literature has been identified — and it will be the equivalent of 10-million Encyclopedia Britannica pages — it will be made available to companies that can reproduce it on compact discs and distribute it to institutions throughout the world.

Olsen initiated another major project at the library: research in an experimental system that allows scholars to retrieve entire texts of journal articles from their laboratory and office computers. The Chemistry On-line Retrieval Experiment, or CORE, will provide 150 Cornell faculty members and staff with seven years' worth of 20 journals published by the American Chemical Society.

Besides these projects, Olsen has introduced a microcomputing center in the library and has developed ways to help undergraduates use the electronic library, such as assigning Mann libraries to serve on the curriculum committees of the College of Human Ecology and the College of Agriculture and Life Sciences. They also train some 4,000 students of the colleges that Mann serves.

"Over the past seven years, the librarians have gone from being followers to leaders in the college [of Agriculture and Life Sciences]," said Ralph Obendorf, professor and member of the faculty library board.

Olsen said she is "not in the least bit awed by change or the dimension of change," but instead finds it intellectually thrilling. And she is not interested in technology at the expense of people, whether they are her staff or her clients.

photo: Chris Hildreth, Cornell Univ.



Jan Olsen

"There are a lot of administrators who attempt to be innovative and cause absolute havoc. They just think about getting from A to B and to hell with the people. I want the people working with me to have as much fun as I do," Olsen said.

Sam Demas, director of Collection Development at Mann, said, "It's her ability to recruit people and then provide the most supportive environment that results in a very productive staff of 62 people."

"A good half of the people in the profession are gloomy and think the profession is on its way out," Olsen said. "But I think library science and the management of information is in its glory days. We have the technology to handle the explosion of information, if only we'll use it."

— Cornell University News Service



News Notes

NAL and NCSU Move Ahead on Electronic Image Transmission Project, NATDP

The National Agricultural Library and North Carolina State University (NCSU) have taken yet another step toward designing an electronic system that may revolutionize the way information is made available throughout the world. NAL and NCSU Libraries and the NCSU Computing Center are researching techniques for electronically transmitting, receiving, and displaying the text and graphics of agricultural materials over the National Science Foundation's INTERNET satellite network. INTERNET connects land-grant universities cooperating with NAL in this project, and transmitted images will be available at remote sites throughout the United States in minutes. Project managers said that the digital images transmitted over INTERNET have been "markedly superior to facsimile transmissions."

"This is the third step of the National Agricultural Text Digitizing Project [NATDP] which NAL began in 1987 to test methods for capturing and delivering text and graphics from agricultural materials on CD-ROMs [compact disc-read only memory]," said Joseph H. Howard, NAL Director. "Through the project we hope to improve our service to the agricultural research community."

In this phase of the project, the interlibrary loan departments of participating institutions are linked by networked workstations. A library seeking documents will make a loan

request by electronic mail to a library known to have the needed information. The lending library will electronically scan the material and transmit the file via INTERNET to the requesting library. The requesting library can then deliver images of the document electronically to a researcher's computer, place them on diskette, or print them.

The first phase of NATDP involved testing various software packages and hardware for scanning and converting the text of books into "machine-readable form," a form that is accessible by computer. This phase also involved producing and distributing for evaluation three experimental CD-ROMs. The second phase was scanning, digitizing, and cataloging a major collection of information and making it available on CD-ROMs for use and evaluation by land-grant universities. For this purpose, NAL used a collection of materials on acid rain compiled by the Canadian government. The collection is comprised of over 1,000 documents numbering some 11,000 pages. NAL put the information on two five-inch CD-ROMs and made it available to participating universities and other interested organizations.

Universities taking part in the image transmission project are Clemson, Iowa State, Michigan State, North Carolina Agricultural and Technical, Ohio State, Penn State, Utah State, VPI, Washington State and the Universities of Delaware, Hawaii, Maryland and Minnesota. NCSU has requested additional funds for the project from the U.S. Department of Education which would allow six more universities to join in the study.

The image transmission phase of the project will evaluate the use of different formats for scanned-page images, the use of various computers for page-image display and manipulation, the use of INTERNET for delivering page images, and the administrative and physical arrangements necessary for soliciting and responding to requests electronically.

To avoid possible copyright infringements during this phase of the project, only government-produced documents, copyright-free publications or materials available under the "fair use" provision of copyright laws will be used.

"As librarians, we are very sensitive to the issue of copyright infringement and we will not be building archival files of image materials during this pilot project. However, the copyright issue will have to be addressed before any large-scale implementation of an image transmission system could be considered," Howard said.

After several months of tests, NAL and NCSU will evaluate the system's ease of use and accessibility to the end user, the demand for and cost effectiveness of transmitting materials in this manner, and the copyright issues. NAL and NCSU will then decide whether further study is warranted or whether the image transmission system should be established permanently.

A new capability of this system compared to other computer transmission networks is that it allows communications between previously non-compatible computer systems, in this instance between Apple and IBM. The project also may have an international component next year. Project managers are seeking to arrange to transmit materials to organizations in Germany and Ecuador.

Apple Computers, Inc. has provided equipment assistance to NAL and NCSU for this project.

— Brian Norris

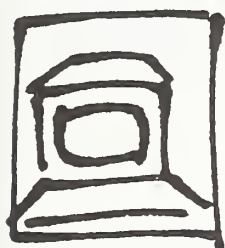


photo: J. Swab

NAL at ALA Midwinter, Chicago, January 1991

NAL staff who attended the ALA Midwinter Meeting participated in a variety of activities in equally various roles. Here Robyn Frank, Head of NAL's Information Centers Branch, chairs the Public Affairs Committee of the Public Relations Section of the Library Administration and Management Association (LAMA). The committee is making final plans for the annual meeting. In the photo above, left to right, are: Linda Stith, Kentucky Department for Libraries and Archives; Kenneth Walter, Director of Library Services, Southern Connecticut State University; Jeanne Thorsen, King County Library System, Washington, LAMA Public Relations Section Chair; Robyn Frank; Marilyn Shuman, Arlington Heights Memorial Library, Illinois; Rebecca Martin, Library Director, University of Vermont; Kriza Jennings, Association of Research Libraries; and Robin Kickingbird, LAMA Program Officer.

Dr. Sarah Thomas, NAL Associate Director for Technical Services, chaired the USAIN meeting, standing in for USAIN President, Julia Peterson. The meeting focused on USAIN projects and NAL semi-annual updates given by Library administrators and managers.



AGRICOLA

AGRICOLA Subject Category Codes with Scope Notes Available

In December 1990, NAL's Indexing Branch published *AGRICOLA Subject Category Codes with Scope Notes*, (Modified AGRIS), 1990 Revision. The Cataloging and Indexing Branches of the Library use the codes and scope notes to classify documents for entry into NAL's database, AGRICOLA (*AGRICultural OnLine Access*), and its print equivalent, the *Bibliography of Agriculture*.

Janet Berkson, who led the group compiling the 170-page volume, said, "This revised edition of the *AGRICOLA Subject Category Codes* will be a valuable reference tool for indexers, catalogers, reference librarians, and all other users of the AGRICOLA database and derivative works."

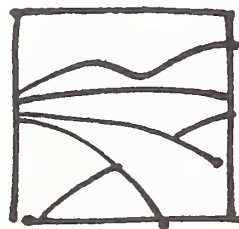
For each category code currently being used by NAL, the publication defines comprehensive subject coverage, indicating when to use the code, and referring to other codes for related subjects or aspects of the subject. This work is to be used with previous publications including *AGRICOLA—Guide to Subject Indexing* and the continuing series *National Agricultural Library Notes to Indexers*.

NAL's AGRICOLA database contains bibliographic records for nearly three million articles and books on agriculture and related subjects. About 85% of the database consists of indexing records for journal articles and parts of monographs, and about 15% consists of cataloging records for books, theses, patents, computer software, audiovisual materials, technical reports, maps, manuscripts, and microforms. The Indexing Branch and its cooperators currently index over 2,000 journal titles, issue by issue, and 500 monographs per year for AGRICOLA.

Copies of *AGRICOLA Subject Category Codes with Scope*

Notes may be obtained by sending a self-addressed label with a request to:

National Agricultural Library
Indexing Branch, Room 011
10301 Baltimore Boulevard
Beltsville, MD 20705-2351



**Rural
Information
Center**

RIC Has Information to Help Reduce Tractor Rollover Deaths

Information which may help prevent deaths from tractor rollovers now is available through the Rural Information Center (RIC) of the National Agricultural Library. RIC can be reached by dialing, toll-free, 1-800-633-7701.

The information is contained in the new publication, "Rollover Protection; A Guide to Tractor Roll Bars and Other Rollover Protective Structures." The guide was prepared and recently released to agricultural extension offices and cooperatives by the Wisconsin Rural Health Research Center, a program of the Marshfield (Wis.) Medical Research Foundation. Listed in the publication are tractor models which have protective structures and information on suppliers, price and other features.

NAL's Rural Information Center has copies of the directory for use on-site and can provide information on the locations of other copies.

Release of the publication was announced by U.S. Department of Health and Human Services (HHS), which assisted in its production. In the announcement, HHS officials said that although most new tractors are sold with factory installed rollover protective structures, only about 30 percent of the 4.5 million tractors used on U.S. farms are equipped with these devices. HHS officials said that a lack of "a single, comprehensive source of information on the availability of rollover protection structures has been a major obstacle to owners seeking to equip their tractors with this safeguard." The officials said that publication and distribution of the rollover protection guide should help reduce the number of deaths and injuries on U.S. farms.

An estimated 300-400 persons are killed and 600-700 suffer disabling injuries each year in tractor rollover accidents, according to the Wisconsin Rural Health Research Center. The center estimates that about 15 percent of the victims are children and that 30-40 percent of overturns of tractors without rollover protection result in death. In a study of 50 overturns of tractors with rollover protection,

there was only one fatality, a 2-percent rate, the center said.

In releasing the guide, the center said a rollover protection structure provides a secure area for the operator in the event of a rollover. Since the operator is protected only by remaining in the secure area, a seat belt must be used when operating a tractor with rollover protection.

—Brian Norris

1990 Farm Bill Expands RIC Mandate

The 1990 Farm Bill expands the responsibility of NAL's Rural Information Center (RIC) to that of a National Rural Information Center Clearinghouse. The new legislation mandates RIC to provide information about rural programs and services offered by Federal, state, and local agencies, as well as those of non-profit organizations and institutions. Such rural services will include assistance programs for job training, education, health care, economic development assistance, and emotional and financial counseling. Congress provided in the legislation an annual authorization of \$500,000 for five years (FY91-FY95) for RIC to establish access to a comprehensive database of rural assistance programs from all levels of the public and private sector.

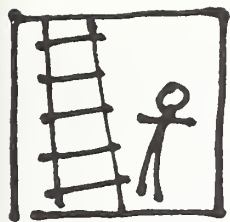
Congress also provided three additional mandates for RIC but did not provide funding authorization. First, RIC, in cooperation with the Extension Service in each state, is to develop, maintain, and provide to each community, and make accessible to any other interested party a catalog of available state, Federal, or private programs that provide leadership training. Second, RIC will have the responsibility of disseminating information it "possesses" on rural health and safety as part of rural health and safety education grant programs coordinated in the states. Third, Congress mandated that the Rural Electrification Administration's technical assistance unit utilize RIC to the extent possible to provide information about rural development efforts to electric and telephone borrowers.

—Patricia L. John

RIC Hosts National Association of County Agricultural Agents State Presidents

Fifty-five present and former state presidents visited RIC in October. Terri Brown provided the visitors with an overview on the Rural Information Center Health Service project while Pat John concentrated on RIC's expansion plans and federal partnerships with the U. S. Department of Health and Human Services, the USDA Rural Electrification Agency, and the Small Business Administration.





**Youth
Development**

Youth Development Information Center Creates Design Team

The Youth Development Information Center (YDIC) was established in 1988 as a joint effort between NAL and the Extension Service/USDA. As part of its role as a national information center, YDIC has developed a national repository of publications which support the research and knowledge base of information for Extension professionals working with youth. (See ALIN, 15(2):1-4, February, 1989.)

To strengthen the center's continued networking and outreach activities with professionals throughout the country, a "Design Team" was identified and invited to the Library. This team is made up of Extension professionals at the state and local level who work with youth programs. The team will assist the center in establishing a strong relationship between YDIC and Extension Service youth professionals across the nation.

The purposes of the meeting at NAL in September, 1990, were to have an open discussion about the Youth Development Information Center and its role within the Cooperative Extension System (CES), to discuss how YDIC can best serve the information needs of the CES, and to develop strategies for incorporating the center into the Extension System's network.

The team discussed the potential of an information center and planned strategy for creating the ideal center to support the work of youth professionals. The team also prepared an action plan which could help set up a network of state liaisons to assist center staff in meeting the information needs of the youth professionals in the states and counties.

The members of the Design Team are: Jim Barthell, county agent, Oshkosh, WI; Richard Clark, State Specialist, OH; Ellen Elliott, County Director, Schenectady, NY; Roy Hamilton, county agent, La Grande, OR, and presently an Extension Fellow working with the National Association of

Counties in Washington, DC; Nicki Jefferson, State Specialist, MO, and an IPA with the Martin Luther King, Jr., Federal Holiday Commission; Robert Norris, Area Director, Las Vegas, NV; Faye Singh, Program Leader, Youth & Manpower Development, Fort Valley, GA (Faye was unable to attend the meeting); and Joyce Walker, State Specialist, St. Paul, MN. Providing leadership to the team were Joel Soobitsky, National Program Leader, Extension Service, 4-H, and Sandy Facinoli, Coordinator of YDIC (John Kane is the new coordinator of YDIC as of December, 1990).

The visit and meeting at the Library included demonstrations of the AGRICOLA database, and the Library's electronic bulletin board, ALF (Agricultural Library Forum). Materials which are now part of the youth development collection were on display. The history of the formation of the center and an overview of the activity of the other information centers at NAL was presented.

— Sandy Facinoli



photos: J. Swab

Participants in the Youth Development Design Team meeting included (top, L-R): Sandy Facinoli, former coordinator of YDIC; Roy Hamilton, Extension Agent, Oregon; Joyce Walker, Extension Specialist, Minnesota; Ellen Elliott, County Extension Director, New York; Nicki Jefferson, State Extension Specialist, Missouri; and Robyn Frank, Head, Information Centers Branch, NAL. Facinoli has since moved to Food & Nutrition, and John Kane heads YDIC. (Bottom, L-R) Richard Clark, Extension Specialist, Ohio; Jim Barthell, County Extension Agent, Wisconsin; Robert Norris, Extension Area Director, Nevada; and Joel Soobitsky, National Program Leader for 4-H, Extension Service, USDA.



Staff Update

Taylor Is NAL's Administrative Manager



photo: J. Swab

Marlene Taylor

In February NAL Director Joseph H. Howard announced the appointment of Marlene Taylor to the position of NAL Administrative Manager, effective the 24th. She succeeds Thomas Neis, who retired last fall.

As the Library's Administrative Manager, Taylor will direct budget and fiscal operations, facilities management, personnel services, equal employment opportunity, civil rights, and special emphasis programs, and the coordination

of these among the divisions of NAL and between NAL and servicing offices in the Agricultural Research Service and USDA. The administrative programs are carried out by a staff of six including a facilities manager, two budget analysts, and accounting, administrative, and secretarial support staff, and a large number of contract and inter-agency personnel.

A native of Utica, NY, Taylor comes to NAL with a background in both public administration and library science, with work experience and master's degrees in both areas. In announcing Taylor's appointment, Howard said, "We are indeed lucky to find a person like Marlene with skills as both an administrator and a librarian. We had many excellent candidates apply for the position, but her combination of library and management talents was just too good to pass up."

From 1987 until accepting the NAL appointment, Taylor was a personnel management specialist with the Farmer's Home Administration, USDA. Previously she had worked as a personnel specialist with the U.S. Treasury Department, and then USDA. From 1973 until 1980, she worked at the Library of Congress, first as a librarian in the National Serials Data Program and later as a personnel specialist. She also has worked as a cataloger at Princeton University in New

Jersey.

Taylor earned her B.A. in government at Cornell University, Ithaca, New York, her M.L.S. at the University of Michigan in Ann Arbor, and her M.P.A. at George Washington University in Washington, D.C.

In her free time Taylor said she likes to play tennis and golf and do low impact aerobics. She plays duplicate bridge, and likes the theater, opera, and movies. When asked about her goals at NAL, Ms. Taylor said, "The Library is involved in so many new and interesting activities related to library science; I am delighted to help in any way I can."

Minnesotan Developing Plan for Fee-Based Services

Richard L. Rohrer, Director of the Library at the St. Paul Campus of the University of Minnesota, is spending three months at NAL, evaluating the Library's system of charging patrons for library services. "As part of NAL's Visiting Librarian Program, I am working with the Library to review its fee-based services," Rohrer said. "I am studying the history of fees for services in the library world and at NAL, will look at where NAL is now, and will consider the options for the future. I will also work with the staff to develop a business plan for these services."

Many federal agencies now charge "users' fees" in an effort to reduce the federal budget. These fees are charges to individuals and organizations for services a federal agency provides. Among present NAL services for which it charges, are photocopying of documents and online computer searches. The future options, Rohrer said, may include, if possible, "new and innovative ways of offering services without fees."

The Library's Visiting Librarian Program allows non-government people to work on specific projects of mutual benefit to NAL and the individual. Rohrer said that he hopes to gain "a greater knowledge of fee-based services and their costs." Under the Visiting Librarian Program, NAL and the librarian's institution enter into an agreement for the librarian's services. NAL and the institution each agrees to provide a percentage of the funds and services necessary to

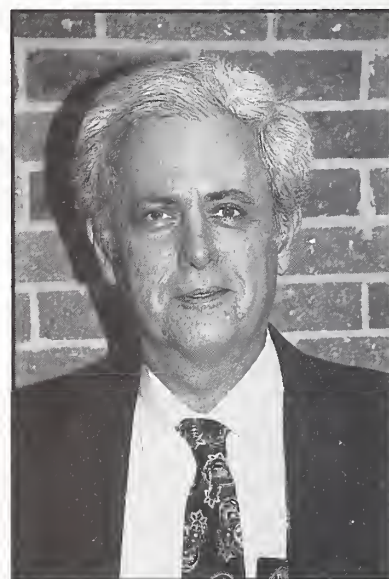


photo: J. Swab

Richard Rohrer

defray the librarian's living and working costs.

Rohrer began working with NAL's Public Services Division staff in early January and will be at NAL through March 1991. He earned his B.S.Ed. and Master of Library Science degrees at Emporia State University in Kansas, and his Master of Public Administration at Minnesota's Hamlin University. Among the areas under his jurisdiction at the St. Paul Campus Library, which he joined as Director in January 1980, are agriculture, forestry, home economics, veterinary medicine, and natural resources. For 12 years previously he had been Assistant Director for Public Services and head of the science division at Kansas City University. In his free time Rohrer enjoys flying, hiking, and walking.

NAL Names Biotechnology Information Coordinator

Dr. Robert D. Warmbrodt, a plant physiologist with 20 years of professional experience, has been named coordinator of the Biotechnology Information Center (BIC). Prior to joining the staff of the National Agricultural Library on December 17, 1990, he had been conducting laboratory research in the Climate Stress and the Plant Physiology Laboratories at the ARS Beltsville Agricultural Research Center since 1978. His primary interests concerned the cellular and molecular aspects of photosynthate partitioning.

A native of Boonville, Missouri, Dr. Warmbrodt has an AB degree in botany and chemistry from the University of Missouri-Columbia, and a master's degree in botany and a Ph.D. in botany and horticulture, both from the University of Wisconsin-Madison. He also was an Alexander von Humboldt Fellow at the University of Goettingen in Goettingen, Germany.

Dr. Warmbrodt's other work experience includes research in horticulture at the University of Maryland-College Park and in botany at the University of Wisconsin-Madison; teaching assignments in botany at Ohio State University-Columbus and the University of Wisconsin-Madison; and a year collecting plants in Panama and Costa Rica for the Missouri Botanical Gardens.

As Coordinator of the Biotechnology Information Center, Dr. Warmbrodt will manage the acquisition, compilation



photo: J. Swab

Robert Warmbrodt

and dissemination of information on the impact of the science of biotechnology on agriculture in the United States and the world. In speaking about the center, he said that BIC "provides information retrieval services to NAL patrons with questions in the general area of agricultural biotechnology as well as in specific areas such as the theory and techniques of genetic engineering, plant and animal tissue culture, risk assessment of the release of genetically-engineered organisms, and regulation of the field of biotechnology." The BIC staff can provide CD-ROM and online database searching, lists of citations for reference materials, and the names of biotechnology contacts in industry, government, and academic institutions.

The telephone numbers for BIC are (301) 344-3218 or 344-3704. The address is:

*Biotechnology Information Center
National Agriculture Library, 14th Floor
10301 Baltimore Boulevard
Beltsville, Maryland 20705-2351*

The Biotechnology Information Center is one of 11 information centers set up by NAL to provide current and comprehensive information on critically important agricultural issues. Other centers cover agricultural trade and marketing, alternative farming systems, animal welfare, aquaculture, food and nutrition, plant genome, rural development, technology transfer, water quality, and youth development.

— Brian Norris

NAL Names New Youth Development Coordinator

At the beginning of this year, Joseph H. Howard, NAL Director, announced the appointment of John D. H. Kane as the coordinator of the Library's Youth Development Information Center (YDIC). Kane, a U.S. Naval Academy graduate and a Ph.D. in rural community development, began his new assignment in January. Previously, Kane had been on the staff of NAL's Rural Information Center since 1988. "I hope to make the Youth Development Information Center a national resource for all agencies and organizations in the public and private sectors," Kane said.

YDIC is one of eleven information centers established by (See KANE, page 22, col. 1)



photo: D. Starr

John Kane

NAL and USDA Administrators Visit University of Maryland Eastern Shore as a Small Farm Study Group

A group of about 40 administrators from various USDA agencies, including a half dozen from NAL, joined the Small Farm Resource Development Working Group, the supporting arm of the USDA Office of Small-Scale Agriculture, to tour the University of Maryland Eastern Shore Campus in Princess Anne recently. This visit gave the Washington, D.C., area administrators a chance to see what's happening in the field.

The tour was led by Howard W. "Budd" Kerr, the Director of the Office of Small-Scale Agriculture, who says: "Everyone in the USDA should try to do everything they can to help those who live on the land. Small scale farmers comprise a growing segment of American agriculture who have needs and problems that must be addressed if they are to remain competitive."

The tour included laboratories studying poultry and plant diseases, outdoor laboratories studying the composting of dead chickens and the effects of environmental pollutants on various crops, and greenhouses being used for hydroponics and the raising of crawfish and tilapia in the University's aquaculture program. The tour also enabled the visitors to learn about research being done to reduce body fat in chickens and to determine which textiles are resistant to pesticides.

John Patrick Jordan, the administrator of the Cooperative State Research Service (CSRS), was among the visitors. CSRS is the link between federal agencies and the state agricultural research system. Dr. Jordan said his agency disperses \$1.6 billion annually in USDA funds appropriated by Congress for the states and focusing attention on national agricultural research needs.

Among others on the tour were George Pierce, head of the Agricultural Census; Joseph Howard, Director of the National Agricultural Library; Michael Deckwitz, the First Secretary (Agriculture) of the Embassy of the Federal Republic of Germany; and Paul Able, a Glendale, Md, farmer. Able, looking for new farming ideas, said he had been a government employee for 33 years before retiring to grow sweet corn on a "very small farm."

The Office for Small-Scale Agriculture was created in 1986 by the USDA to gather and disseminate information to maximize small farmers' effectiveness. Issues of the agency's popular quarterly newsletter are available from the Office for Small-Scale Agriculture, 14th & Independence Avenue SW, Washington, D.C. 20250-2200.

(Reprinted, slightly revised, from *The Delmarva Farmer*, September 4, 1990, p. 20)

(KANE, from page 21, col. 2)

NAL to provide to the agricultural community the most comprehensive and current information available on major issues affecting U.S. agriculture. Other subjects covered by NAL information centers include agricultural trade and marketing, alternative farming systems, animal welfare, aquaculture, biotechnology, food and nutrition, plant genome, technology transfer, and water quality.

Kane graduated from the Naval Academy in 1969 with a degree in Engineering Science. Among many Navy assignments, he was Gunnery Officer on the destroyer USS Henderson off the coast of Vietnam.

Since 1975 Kane has held a series of positions related to animal science including assistant herdsman on the University of Maryland Swine Research Farm; farm manager at a cattle and horse farms in Maryland, Virginia and North Carolina; and manager of the University of Maryland Beef and Sheep Research Farm. Concurrent with these positions he has taught courses, published papers and articles, and participated in programs related to animal sciences. He earned a master's degree in animal nutrition from the University of Maryland in 1978. Kane is married and the father of three sons. His hobbies include steer roping.

YDIC can be reached by calling (301) 344-3719. The address is:

Youth Development Information Center
National Agricultural Library, Room 301
10301 Baltimore Boulevard
Beltsville, MD 20705-2351



UMES Visit — I

(Opposite page, clockwise from top left) Dr. Mortimer Neufville, Dean of the University of Maryland Eastern Shore (UMES), Princess Anne.

Dr. Jeannine Harter-Dennis discusses the poultry science program at the university, while her colleague Dr. Martin Newcome looks on and a lab assistant works in the background.

Dr. Steve Fitz-Coy (2nd from right), parasitologist, discusses various animal science experiments with part of the USDA/NAL group.

Mrs. Bessie Green (center), laboratory scientist, discusses programs related to insect diseases, soybean and other crop diseases, work with rhizobium, propagation of yams and other plants from plant tissues, etc.

And (lower left), Dr. William P. Hytche, President of UMES, who reviewed the history of the university briefly, discussed the current and future development of the academic programs, capital resources, building programs, and campus growth.

Among NAL participants seen in various photos in this article were Joseph H. Howard, Director; Robyn Frank, Head Information Centers Branch; Alan Fusonic, Head, Special Collections; Jayne MacLean and Jane Gates of the Alternative Farming Systems Information Center; and Joseph N. Swab, Editor of *ALIN*.

Photos by Joseph N. Swab, NAL.

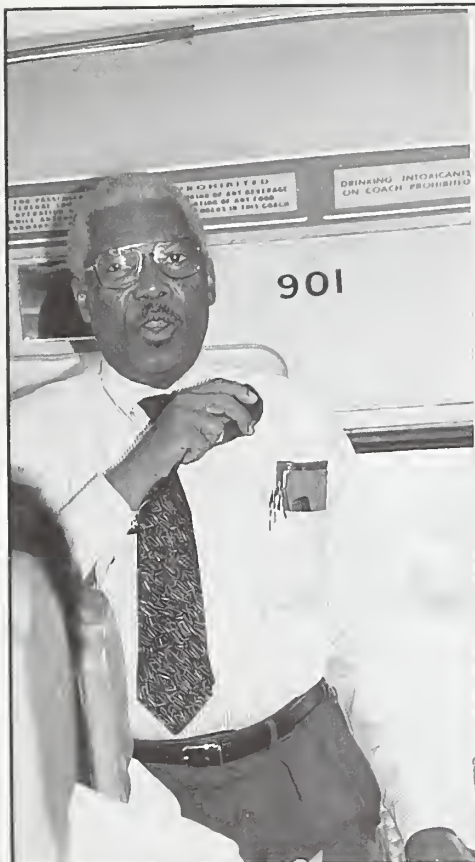




photo: T. Handwerker

The USDA/NAL group at UMES and several of the university staff. More than a score of USDA agencies are represented.

UMES Visit — II

(Opposite page — 25 — , top left) Dr. Shaw discusses textile research at UMES; beside her is Dr. Ignasias, Assistant Dean of UMES.

(Top right) Dr. Murphy discusses dead (and diseased) bird disposal by composting.

(Center left) The composting through fertilizer process is exhibited, along with bags and buckets of the product as sold for income to support the program.

(Center right) Jesse Smith, Head of the UMES Library, which is seen in the background.

(Bottom left and right) Dr. Gupta is seen with experiments related to the effect of environmental pollution on crops and monitoring equipment.

Photos by Joseph N. Swab, NAL.

UMES Visit — III

(Page 26) Dr. Tom Handwerker discussed programs related to the conversion of poultry farms and greenhouse operations to aquaculture and hydroponics.

(Top left) Market size tilapia flip and flop in the puddle at Handwerker's feet. A number of restaurants are now buying fish from his tanks.

(Center right) Tilapia engage in a feeding frenzy in one of the tanks in a converted greenhouse, while Handwerker, (top right) splashed by the fish, discusses economics of this kind of aquaculture.

(Bottom right) Crayfish are among the profitable aquaculture species in the program. Handwerker shows how to hold one while telling about a dignitary who got her fingers pinched.

(Bottom left) The hydroponics experiments.

Photos by Joseph N. Swab, NAL.

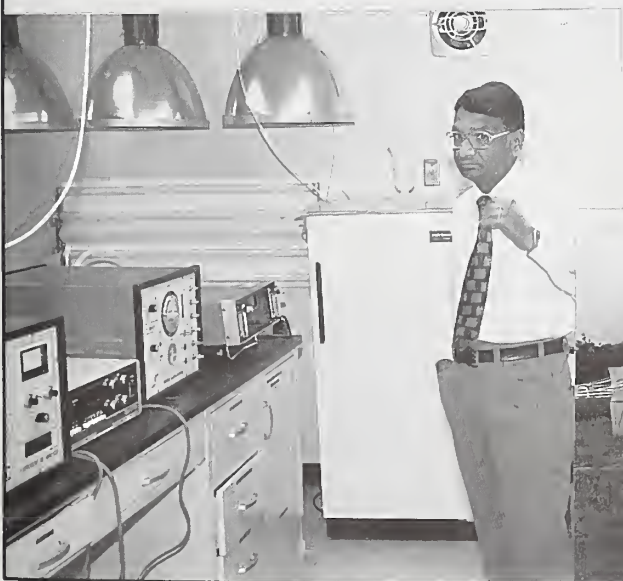
UMES Visit — IV

(Page 27, top) Don Mahan, alternative crops, discusses various vegetables, herbs, and other crops, their interplanting to control unwanted plants and insects, and the economics of alternative agriculture methods for the small farmer, and (center) some of the experimental plots.

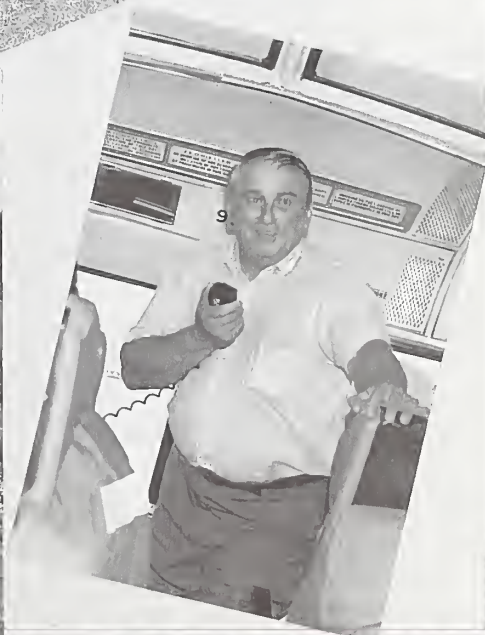
(Lower left) The group moves past the sign for the Princess Anne Facility, Agricultural Experiment Station, Cooperative Extension Service at the close of the tour.

(Lower right) Howard "Budd" Kerr, Director of USDA's Office of Small Scale Agriculture and organizer of the tour, gives a wrap-up talk on the bus going home.

Photos by Joseph N. Swab, NAL.







NAL and ARS Sponsor Multicultural Festival

To celebrate Hispanic Heritage Month, Special Emphasis Programs, and the cultural heritage of all employees, the National Agricultural Library and the Agricultural Research Service in the Beltsville/Hyattsville area joined in sponsoring a Multicultural Festival on September 27, 1990. The event was held in the picnic area behind the NAL Building. The program included entertainment, awards, and a keynote address by Beatriz Ferreira Engelke (see address below and on following pages). Staff from the divisions and branches of both NAL and ARS brought food specialties from nationality or cultural groups from all over the world. Several hundred staff members enjoyed the picnic and program.

Festival—I

Photos on the following pages include (facing page, 29): Beatriz Engelke (center), Chemist, Plant Sciences Institute, ARS.

(Clockwise from upper left) Keith Russell, Associate Director for Public Services, NAL, representing the NAL Director as co-host of the event, gave opening remarks; Dr. Essex E. Finney, Jr., Beltsville Area Director, ARS, co-host, gave opening remarks; Linda Showers, Acquisitions and Serials Branch, NAL, sang "God Bless America"; the NAL building and picnic area; and Laura Nauta, Cataloging Branch, NAL Special Emphasis Program Manager for Hispanic, Native American, and Asian and Pacific programs, who organized the event and was M.C.

Photos by Joseph N. Swab, NAL.

Festival—II

(Page 30, clockwise from upper left) Vallie Bray, Biological Lab Technician, Plant Sciences Institute, ARS, BARC Special Emphasis Programs Co-Manager; Tanya Tanner, Indexer, NAL Indexing Branch, and Special Emphasis Manager for Black Programs; Verna Chen, Library Technician, Cataloging Branch, who performed several Chinese dances; Valerie Taylor-Hobson, of Universal Language Enterprises, a private organization from Germantown, MD, who sang "Lift Every Voice and Sing," "You Light Up My Life," "We Shall Behold Him," and "Forever Friends"—Ms. Taylor-Hobson accompanied her singing with sign-language; American Indian Society Dancers with many of the crowd of picnickers; and (center) Los Caminantes, Luis Alfredo and Miguel Angel, who played and sang Spanish and Latin American songs, including some at audience request.

Festival—III

(Page 31, top) Dr. Finney presents Certificates of Appreciation to Steven Berberich, Director of the ARS National Visitor Center (NVC) and Jean Newcomb, NVC Visual Information Specialist for their exhibit for this event and the month's activities, "Cultural Ties That Bind."

(Center) Two photos of the American Indian Society Dancers and the audience.

(Bottom) Art exhibit and sale by Van Gora from Sierra Leone.

THE SPANISH CONTRIBUTION TO AMERICAN INDEPENDENCE

by Beatriz Ferreira Engelke
Chemist, Weed Science Lab, Plant Science Institute,
Agricultural Research Service

Ladies and Gentlemen:

I am very pleased to have the opportunity to speak to you during this month when we celebrate the "Spanish Heritage of North America." The subject is so vast that the only possible thing to do is to choose a segment of it.

I have selected: "The Spanish Contribution to the American Independence."

This contribution is little known, if at all. From information made available by the Embassy of Spain, I culled some facts I found extremely interesting. I'll share these with you.

—Paris in 1774 was the center of the Western world and Ambassador Aranda of Spain used his position in the court of the King of France to keep his King well informed about the rebellion of the colonists in America and about the

measures taken by England to cope with the situation. Everybody in Europe was aware that the balance of power was going to change radically if the rebellion succeeded, and that measures should be taken early, either to take advantage of the situation or to contain the damages. For instance, Russia in 1775 reinforced its troops in Alaska to help the British.

—In this same year of 1775, the Continental Congress adopted the Spanish Dollar as the basic monetary unit of the new government, rejecting the English Sterling. (The dollar sign "\$" was taken from a design found in the Imperial Coat of Arms of Spain).

—In June 1776, practically on the eve of the Declaration of Independence, good news reached the American Patriots. King Carlos III of Spain had taken the momentous decision to grant economic help and to provide the American Colonists with arms. He was sending immediately 5 million dollars as a first installment.

—In 1777, Benjamin Franklin met in Paris with Ambassador Aranda to present his credentials. I quote: "This credential grants the bearer full power to communicate, to deal and to conclude with His Most Catholic Majesty, the King of Spain, a true and sincere friendship treaty....Whereas a friendly and commercial connection between his people and the people of these States will be beneficial for both Nations."

(See Spanish, page 32, col 1.)







(Spanish, from page 32)

The practical good sense of the Americans was already at work.

—In that same year of 1777, Spain offered to the Marquis de LaFayette the use of its ports and put at his disposal the frigate Victoria, as France had refused LaFayette authorization to join the American rebels in their struggle for independence.

This is a very interesting bit of history: it shows that the role of Spain in these matters is not remembered as it should be—perhaps because of the political vagaries of the changing times.

—In 1779, war was imminent between Spain and England. To prevent the war, England proposed to Spain the following: if Spain ceased to intervene in their conflict with the North American colonists, England was prepared to give back Gibraltar and the Floridas, as well as to concede fishing rights in New Foundland. Spain did not accept this offer.

Let us pause for a moment and consider that Gibraltar is still in 1990 a thorn in the flesh of Spain. It was indeed a fateful decision.

The war started, and the Spanish forces took Baton Rouge and Saumure in Louisiana. The navies of the two countries fought on several fronts: in the Bahamas, in the Azores, and most important for the Americans, in the siege of Gibraltar. Why was such a distant siege so important for the Americans? Because it prevented British reinforcements from reaching the English troops in American. Remember, those were the days of sailing ships. The English troops were left practically isolated as a result of these Spanish actions.

The fighting continued on the American continent and Spain took Mobile and Pensacola, where 10,000 English soldiers under General Campbell surrendered to the Spanish army.

—In 1781, the Governor of Cuba, aware of the hardships the Americans were enduring, raised a subscription in Havana and sent 1.5 million dollars to the new Republic, plus arms, clothing, uniforms, and men. Twelve Spanish ships left Havana for America and arrived in time for the decisive battle of Yorktown. After Yorktown the British tried to regroup their forces in the Bahamas. The Spanish navy presented it.

—But everything comes to an end, and in 1782 America concluded a peace treaty with England and in turn England concluded a peace treaty with France and Spain. These are known as the Treaties of Versailles (not be confused with the Treaty of Versailles that concluded World War I in 1918). These treaties ended the War of Independence for America and brought peace for a short time to Europe. It was just a respite before the French Revolution, the Napoleonic wars and the Wars of Independence of Latin America. A new world had emerged.

—In 1785, (after the dust settled) General Washington thanked King Carlos and sent him some gifts: a pair of mules and a blanket of vicuna. Presents fit for a man “who has everything.”

And so it began the great adventure of the sharing of a continent by these two great cultures: the Mediterranean and the North Sea people—through their multiracial descendants, had to learn to live together while navigating a sea

full of misconceptions and prejudices.

It is up to us now almost 500 years after the discovery of America, and at the dawn of the XXI century, to make of this voyage a marvelous adventure—it is inspiring to discern the beginning of a new era in the present talks between the USA and Mexico about forming a common market. The logical consequence of this development will be, in time, a Western Hemisphere Common Market, with all that it entails for future peace and prosperity. If the Europeans can do it, why not us? God bless us all.



**Food &
Nutrition**

NAL Holds Cooking Demos, Other Activities for Food and Nutrition Information Center Anniversary

In recognition of the 20th anniversary of NAL's Food and Nutrition Information Center (FNIC), a year-long program of public activities is being held at the Library.

“Heart Healthy Treats for Your Valentine” and “Cooking Tips to Keep Your Heart in Shape” were two free cooking demonstrations that were given in February, designated American Heart Month by the American Heart Association.

Natalie Updegrove, FNIC nutritionist, said that in addition to helping to focus attention on American Heart Month, the cooking demonstrations kicked off FNIC's 20th anniversary celebration. “Since 1970, NAL's Food and Nutrition Information Center has been providing information to the American public on maintaining a healthy and nutritious diet,” she said. “We are proud of that record and, in celebration, have planned a year-long calendar of events focusing on food and nutrition.”

Other anniversary activities include nutrition exhibits at NAL during March, National Nutrition Month; National Employees Health and Fitness Day on May 15; a seminar on food and nutrition research in June and “Healthy Holiday Eating Tips” in November and December. FNIC will officially celebrate its 20th anniversary with an open house and a large nutrition exhibit in September.

The cooking demonstrations were open to the public and were held in the NAL cafeteria on the fourteenth floor of the library. Sponsored by FNIC and the Fitness Center of USDA's Beltsville Agricultural Research Center, the cooking demonstrations, as the names imply, focused on “heart



photo: J. Swab

Sharon Jacobson, ARS Fitness Center, demonstrated the preparation and cooking of the foods presented.



photo: J. Swab

Shirley King Evans, Nutritionist, FNIC, NAL, was a co-organizer, and assisted with the demonstrations.



photo: J. Swab

Natalie Updegrove, Nutritionist, FNIC, NAL, was a co-organizer, and assisted with the demonstrations.

healthy" recipes.

"We demonstrated some fairly quick and easy dishes that are low in fat yet high in taste," Updegrove said. "On February 12, we featured chicken and vegetarian dishes, fish, two side dishes, bread and a meringue dessert with fruit sauce. On February 28, we concentrated on how to prepare meals and snacks to reduce the risk of heart disease."

Updegrove said the cooking demonstrations were very well attended and an excellent way to start FNIC's anniversary year.

— Brian Norris



photos: J. Swab

(Above) While Jacobson prepares the food, Updegrove and Evans answer nutrition questions and assist with the preparation and cooking. After each demonstration all three helped serve samples (enough for lunch) to the audience participants. About a third of the audience at the second demonstration are seen below.

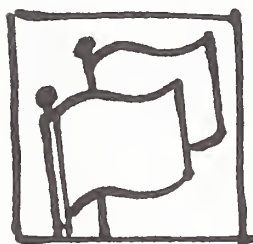


Conserve Our Natural Resources



photo: J. Swab

In November the Executive Committee of the International Association of Agricultural Information Specialists (IAALD) held a meeting at NAL with the Association's new President, Joseph H. Howard, NAL Director. Above, L-R, are: Dr. John Metcalfe, General Manager, International Food Information Service, Reading, United Kingdom; Joseph H. Howard; William Posnett, Information Resource Unit, Institute of Development Studies, University of Sussex, Brighton, United Kingdom; Vera Buchneva, translator, USSR; Dr. Jacques Shippers, Chief Librarian, Wageningen Agricultural University, The Netherlands; Vjacheslav Pozdnyakov, Director, Central Scientific Agricultural Library, International Relations Department, Moscow, USSR; Dr. William Umbima, Head Librarian, International Laboratory for Research on Animal Diseases, Nairobi, Kenya; Carol Boast, Director, Agriculture Library, University of Illinois, Urbana, IL; Dr. Jan van der Burg, IAALD Secretary/Treasurer, PUDOC, Wageningen, The Netherlands; Thiendou Niang, CTA, Wageningen, The Netherlands; Antoinette Powell, IAALD Bulletin Editor, Librarian, Agriculture Library, University of Kentucky, Lexington, KY; and Dr. Wolfrudolf Laux, IAALD Junior Vice President, Biologische Bundesanstalt, Berlin, Germany.



Visitors

(Right, L-R) Eldon E. Fredericks, Education Technology Specialist, Extension Service, USDA; Joseph H. Howard, Director, NAL; Tibor Veress, editor/reporter from the National Hungarian Radio and Television, Agricultural Section; and Rosemary R. Ramirez, Confidential Assistant to the Director, Publishing and Visual Communication, Office of Public Affairs, USDA. Mr. Vares was visiting to study how U.S. agriculture appears in national and local radio and television, including how smaller stations and studios make programming decisions. His NAL visit included demos of AGRICOLA, REGIS, and photo discs.



photo: J. Swab



New Bibliographies

The bibliographies in the *Quick Bibliography* series are primarily computerized online as batch bibliographies emanating from searches performed by the NAL Public Services Division Staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, and probable value to a larger audience. Since October 1988, all *QB's* include search strategies. Unless otherwise specified, citations are from AGRICOLA.

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National Agricultural Library
Beltsville, MD 20705-2351

Quick Bibliographies

Q.B.—91-42. Animal Models of Disease, January 1979-December 1990. 228 citations; languages: none excluded. Prepared by Cynthia Petrie Smith. Animal Welfare Information Center. February 1991. Updates QB 90-09.

Q.B.—91-43. Laboratory Animal Facilities and Management, January 1979-December 1990. 420 citations; languages: none excluded. Prepared by Karen J. Clingerman. Animal Welfare Information Center. February 1991. Updates QB 90-55.

Q.B.—91-44. Potential New Crop: Guayule, January 1979-December 1990. 320 citations; languages: none excluded. Prepared by Jerry Rafats. Alternative Farming Systems Information Center. February 1991. Updates QB 88-57.

Q.B.—91-45. Potential New Crop: Crambe, January 1970-December 1990. 164 citations; languages: none excluded. Prepared by Jerry Rafats. Alternative Farming Systems Information Center. February 1991. Updates QB 88-12.

Q.B.—91-46. Aquatic Vegetation Control, January 1979-September 1990. 184 citations; languages: none excluded. Prepared by Ann Townsend Young. Aquaculture Informa-

tion Center. March 1991. Updates QB 89-100.

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Q.B.—91-49. Regulating Water Quality: Policy, Standards, and Laws, January 1982-July 1990. 295 citations; languages: none excluded. Prepared by Jodee Kuske. Water Quality Information Center. March 1991.

Q.B.—91-50. Managing Nonpoint Sources of Pollution, January 1982-July 1990. 227 citations; languages: English only. Prepared by Jodee Kuske. Water Quality Information Center. March 1991.

Q.B.—91-51. Allocation of Water Resources, January 1985-July 1990. 251 citations; languages: none excluded. Prepared by Jodee Kuske. Water Quality Information Center. March 1991. Updates QB 79-12.

Q.B.—91-52. Monitoring Water for Agricultural Wastes and Agrichemicals, January 1982-July 1990. 187 citations; languages: English only. Prepared by Jodee Kuske. Water Quality Information Center. March 1991.

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Q.B.—91-54. Foreign Investment in U.S. Agricultural Resources, January 1979-November 1990. 101 citations; languages: English only. Prepared by Steven Shapiro. Reference and User Services Branch. March 1991. Updates QB 79-33.

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Surplus Publications

The National Agricultural Library will make available the following surplus publications to any interested organization that regularly sends free publications to NAL, including most Federal, land-grant, and agricultural research institutions as well as many others. Foreign institutions will need to provide a U.S. mailing address or make other special arrangements with U.S. sources for shipment of material. Listed titles may be requested up to six months following announcement.

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Journal of Range Management. Vol. 1-42, 1048-89.

Journal of Regional Science. Vol. 11-24, 1971-84.

Journal of Soil Water. Vol. 37-43, 1982-88.

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Serial Gaps

The National Agricultural Library identifies gaps in the national collection through collection maintenance activities and patron requests. We appreciate your donation of the following publications needed to complete collections. If you have questions, call Ruth Finnblade, Gift and Exchange Program, (301) 344-4061.

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Anthozoos. Vol. 1, No. 1, 1987.

(Ag Datebook, from p. 39, col. 2)

Rock, AR. Contact: 202-382-9540.

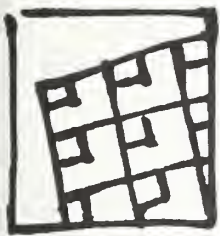
June 2-7: National Feed Ingredients Association Feed Ingredient Institute. Chicago, IL; Hyatt Regency O'Hare. Contact: NFIA, 515-225-9611.

June 4-6: National Feed Ingredients Association Nutrition Institute. Chicago, IL; Hyatt Regency O'Hare. Contact: NFIA, 515-225-9611.

June 8-13: Special Libraries Association. San Antonio, TX.

June 9-11: International Dairy-Deli Association 27th Annual Seminar and Expo. Anaheim, CA; Convention Center. Contact: 608-238-7908.

(See Ag Datebook, last page this issue.)



Agriculture Datebook

April 3-5: Global Pollution Prevention Conference and Exhibition. Washington, DC; Sheraton Washington Hotel. Contact: 703-823-2333.

April 4-6: Aquaculture Symposium. Ithaca, NY; Cornell University. Contact: 607-255-2280.

April 8-11: Second International Conference on the Scientific and Policy Issues Facing All Governments. Theme: "Global Warming—A Call for International Coordination." Chicago, IL. Contact: 708-910-1551.

April 8-11: The Environmental Technology Expo. Chicago, IL; McCormick Place East. Contact: Jill Vanderlin, 708-299-9311.

April 8-12: Second Global Conference on New Trends in Science, Technology, Economy, and Society: Joint Ventures for Sustainable Development. Shanghai, China; Tianlin International Education Center. Contact: Roger Collins, 206-432-7083.

April 9-11: 75th Annual Meeting of the Livestock Conservation Institute. Bloomington, MN; Minneapolis Marriott Hotel. Contact: 608-221-4848.

April 10-11: U.S. Agriculture: Forces Reshaping the Future Symposium. Chicago, IL; Westin Hotel. Contact: Kline & Company, Inc., 201-227-6262.

April 14-16: Meeting of President's Council on Rural America. Lincoln, NE. Contact: 202-447-8653.

April 14-17: 33rd Annual Meat Science Institute. Athens, GA; University of Georgia. Contact: 404-542-1102.

April 15: National USDA/NAS Higher Education Conference. Washington, DC. Contact: 202-447-5923.

April 21-22: International Symposium of Co-op Managers. Carmel, CA. Contact: 202-245-5358.

April 21-23: National Feed Ingredients Association Marketing & Business Planning Institute. Nashville, TN; Opryland Hotel. Contact: NFIA, 515-225-9611.

April 24-26: 8th World Meat Congress. London, England; Queen Elizabeth II Centre. Contact: (0908) 677577.

April 26: National Turkey Federation Trends in the Food Service Industry Seminar. Chicago, IL. Contact: Teresa Farney, 703-435-7209.

May 2-3: Terminal Elevator Grain Merchants Association Annual Meeting. Tucson, AZ. Contact: Bob Peterson, TEGMA, 202-842-0400.

May 2-5: International Public Market Conference. New Orleans, LA; Fairmont Hotel. Contact: Carol Wells, French Market Corp., 1008 N. Peters St., P.O. Box 51749, New Orleans, LA 70151.

May 2-7: International Association of Fairs and Expositions (IAFE) 23rd Annual Spring Conference. Oklahoma City, OK; Marriott Hotel. Contact: 417-862-5771.

May 5-8: Marie Selby Botanical Gardens International Symposium: The Biology and Conservation of Epiphytes.

Sarasota, FL. Contact: Dr. Nalini M. Nadkarni, Director of Research, The Marie Selby Botanical Gardens, 811 South Palm Ave., Sarasota, FL 34236. 813-366-5730.

May 6: Symposium on "Agriculture for the Year 2000." Lexington, KY. Contact: 202-447-5923.

May 6-12: Third National Conference of the Agriculture, Food and Human Values Society. Monterey, CA. Contact: Patricia Allen, Senior Analyst, Agroecology Program, Division of Social Services, University of California, Santa Cruz, CA 95064. Contact: 408-459-0111 x4140.

May 8: Resource Policy Consortium Professional Symposium. Washington, DC. Contact: 202-447-4164.

May 8: California Animal Nutrition Conference. Fresno, CA. Contact: 202-447-4256.

May 9-10: Southeastern Poultry & Egg Association Poultry Processor Workshop. Atlanta, GA; Omni Hotel. Contact: SPEA, 404-377-6465.

May 13-16: Fifth International ABC Biotechnology Meeting. Washington, DC. Contact: Association of Biotechnology Companies, 1666 Connecticut Ave., N.W., Suite 330, Washington, DC 20009-1039. Contact: 202-234-3330, FAX: 202-234-3565.

May 16-18: The Association of Systematics Collections (ASC). Workshop on Biodiversity and Collections. Texas A&M University, University Station, TX. Contact: ASC, 730 11th St., N.W., 2nd floor, Washington, DC 20001. 202-347-2850, FAX: 202-347-0072.

May 19-23: Society for Ecological Restoration 1991 Conference. Orlando, FL. Contact: Lynn Schmidt, SER, 1207 Seminole Highway, Madison, WI 53711. 608-262-9547.

May 20-22: National Angus Conference. Austin, TX. Contact: 816-233-3101.

May 21-24: CGIAR Mid-Term Meeting. Paris, France. Contact: CGIAR, c/o The World Bank, 1818 H St., N.W., Washington, DC 20433. 202-473-8951, FAX: 202-334-8750.

May 26-30: EUCARPIA Symposium on Genetic Manipulation in Plant Breeding-Molecular Biology/Breeding Interface. Salou/Reus (Tarragona) Spain. Contact: F. Garcia-Olmedo, EUCARPIA Symposium, E.T.S.I. Agronomos, E-28040 Madrid, Spain. Telephone: 34-1-244-4807, FAX: 34-1-243-4879.

May 29-31: European Compound Feed Manufacturers Association Congress. Paris, France; Interncontinental Hotel. Contact: ADOCOM, 50, Bd. Beaumarchais 75011 Paris, France.

May 29-31: Seventh Wildland Shrub Symposium. Sun Valley, ID. Contact: Ms. Nancy Hess, Div. of Continuing Education, Boise State University, 1910 University Drive, Boise, ID 83725.

May 30: National Food Processors Association and American Meat Institute. Executive Conference on Hazard Analysis Critical Control Points. Kansas City, KS. Contact: 202-639-5924.

May/June: Second International Workshop on Biological Diversity and Genetic Resources. Msida, Malta. Contact: Dr. Promila Kapoor, Commonwealth Science Council, Commonwealth Secretariat, Marlborough House, Pall Mall, London, SW1Y 5HZ, UK. Telephone: 44-1-839-341, FAX: 44-1-930-0827.

June 2-5: Mid-America Regulatory Conference. Little (See Ag Datebook, p. 38, col. 2)

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(Ag Datebook, from p. 38, col. 2)

June 9-12: American Meat Science Association/FSIS Liaison Committee Meeting. Manhattan, KS; Kansas State University. Contact: 312-467-5520, or 202-447-7025.

June 9-12: 44th Annual Reciprocal Meat Conference. Manhattan, KS; Kansas State Univ. Contact: 312-467-5520.

June 9-12: G&T Managers Association. Anchorage, AK; Clarion Hotel. Contact: 202-382-9540.

June 9-13: Society for Economic Botany (SEB) Conference. Claremont, CA. Contact: Trish Flaster, SEB Newsletter Editor, Celestial Seasonings, Inc., 1780 55th St., Boulder, CO 80301-2799. 303-449-3779.

June 10: "The Fruit and Vegetable Industry: A Look Through the 90's." Alexandria, VA. Contact: 202-447-4164.

June 13-14: USDA Farm Women's Forum. Washington, D.C.; Capitol Holiday Inn. Contact: B. Coe, 202-863-4268.

June 16-20: World Aquaculture Conference and Exposition. San Juan, Puerto Rico; Caribe Hilton. Contact: Conf. Hdqtrs., Suite 14, 940 Belmont Ave., Belmont, CA 94002.

June 19-22: Symposium on the History of Agriculture and the Environment. Washington, DC. Contact: Douglas Helmes, SCS National Historian, P.O. Box 2890, Washington, DC 20013. 202-447-3766.

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